

Figure 1: SPC Characterization methods

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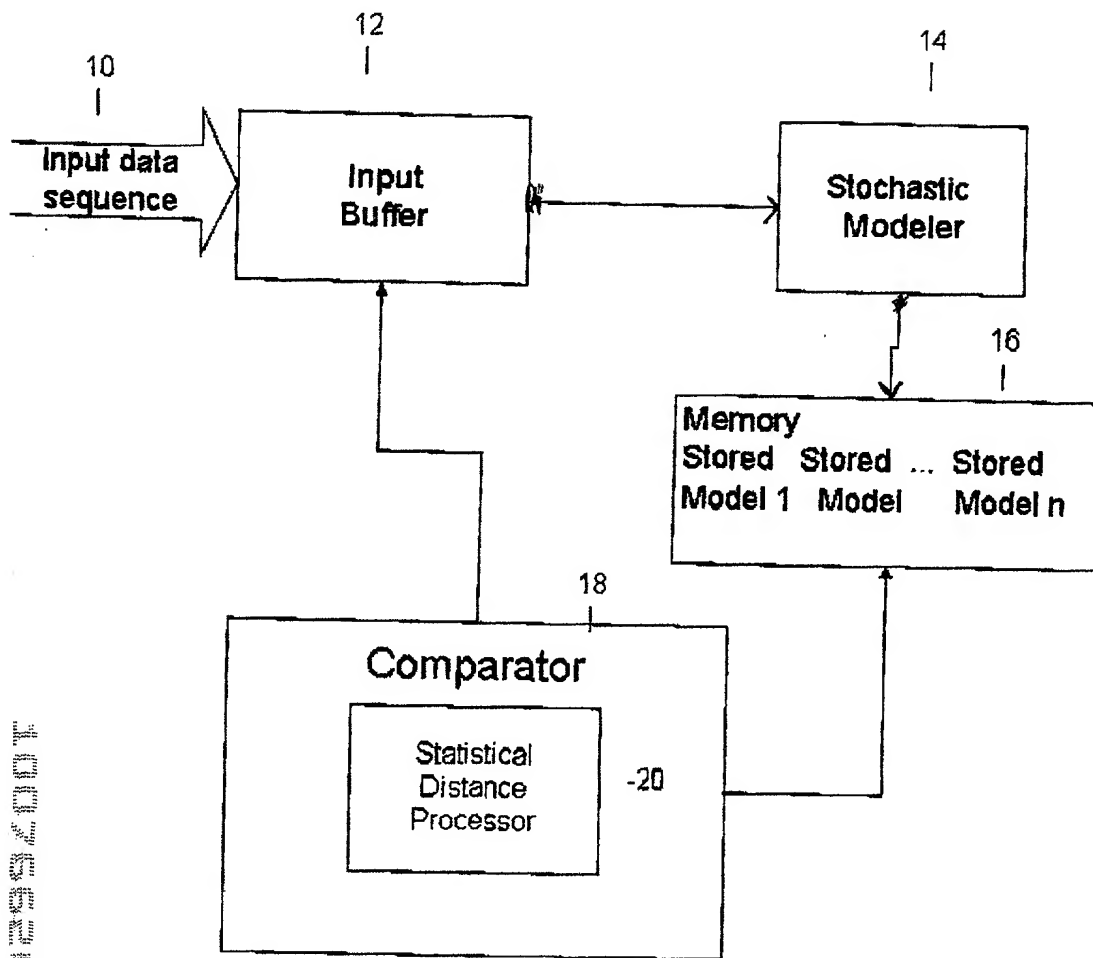


Fig. 2

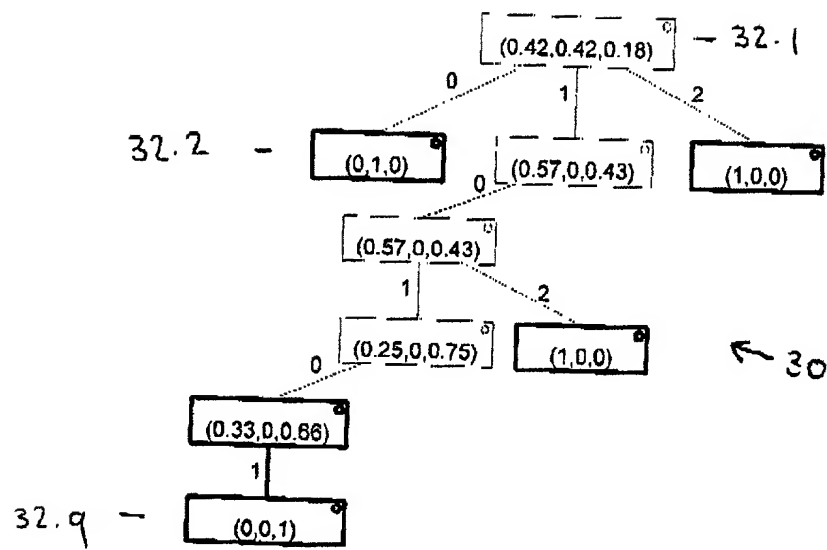


Fig. 3

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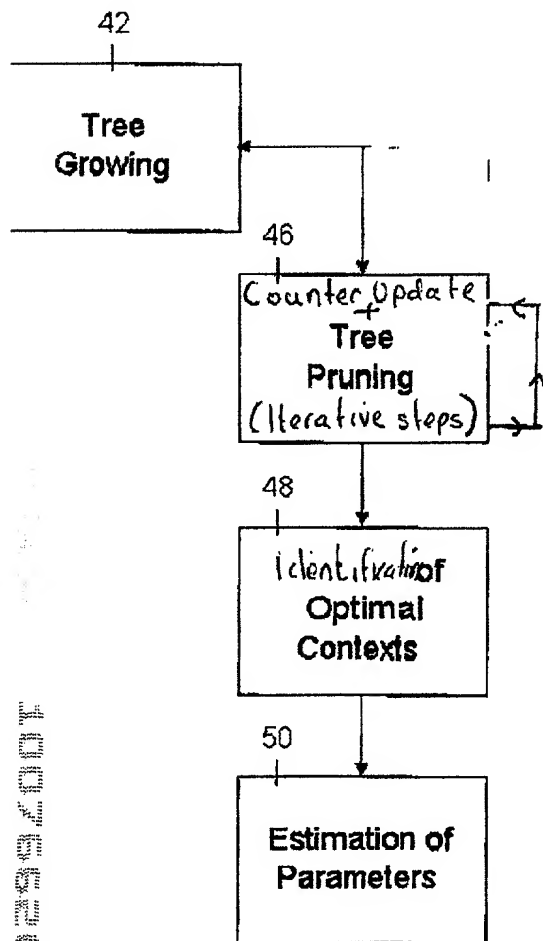


Fig. 4

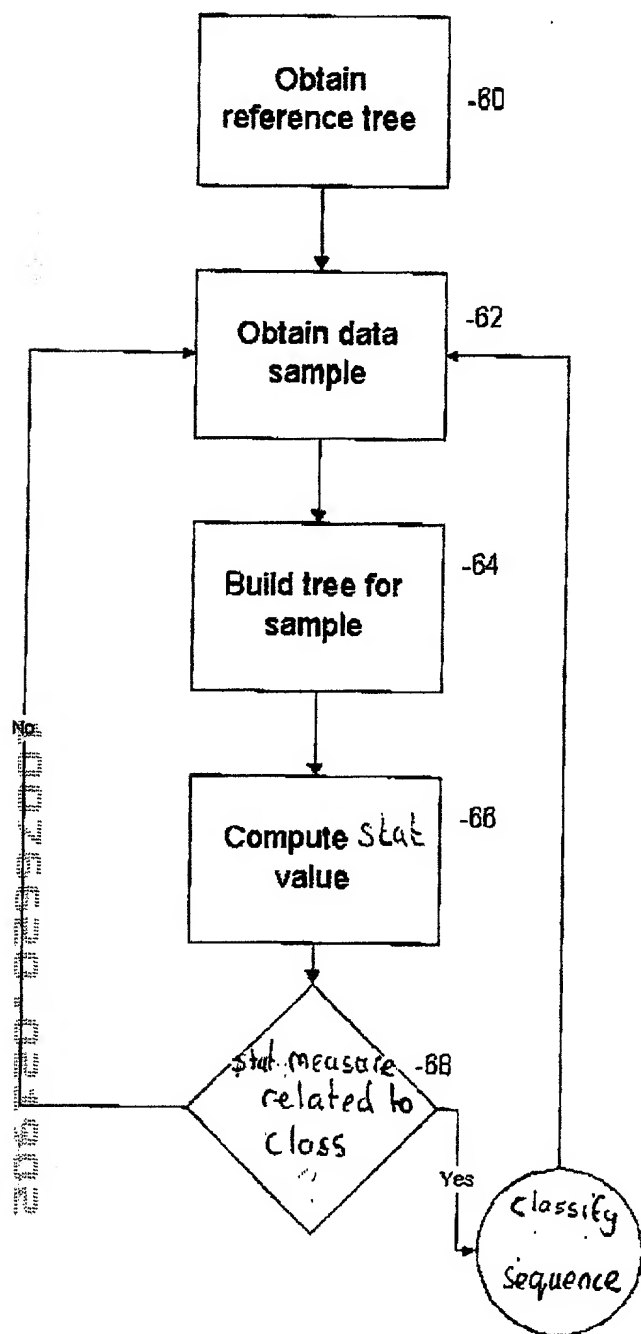


Fig. 5A

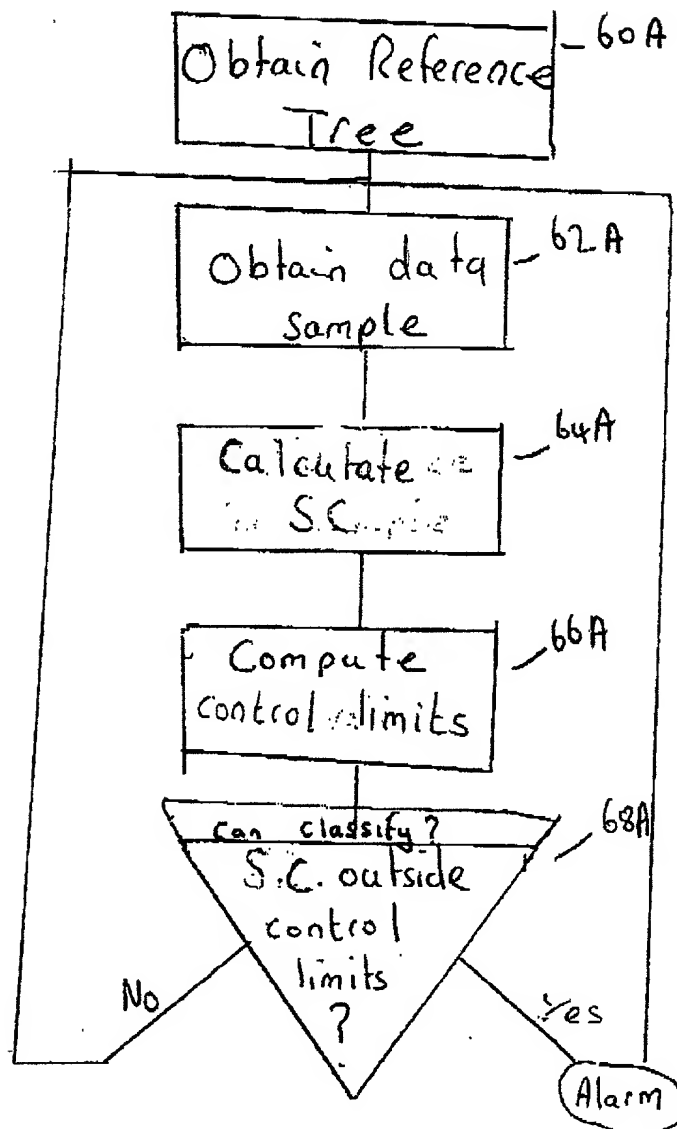


Fig. 5B

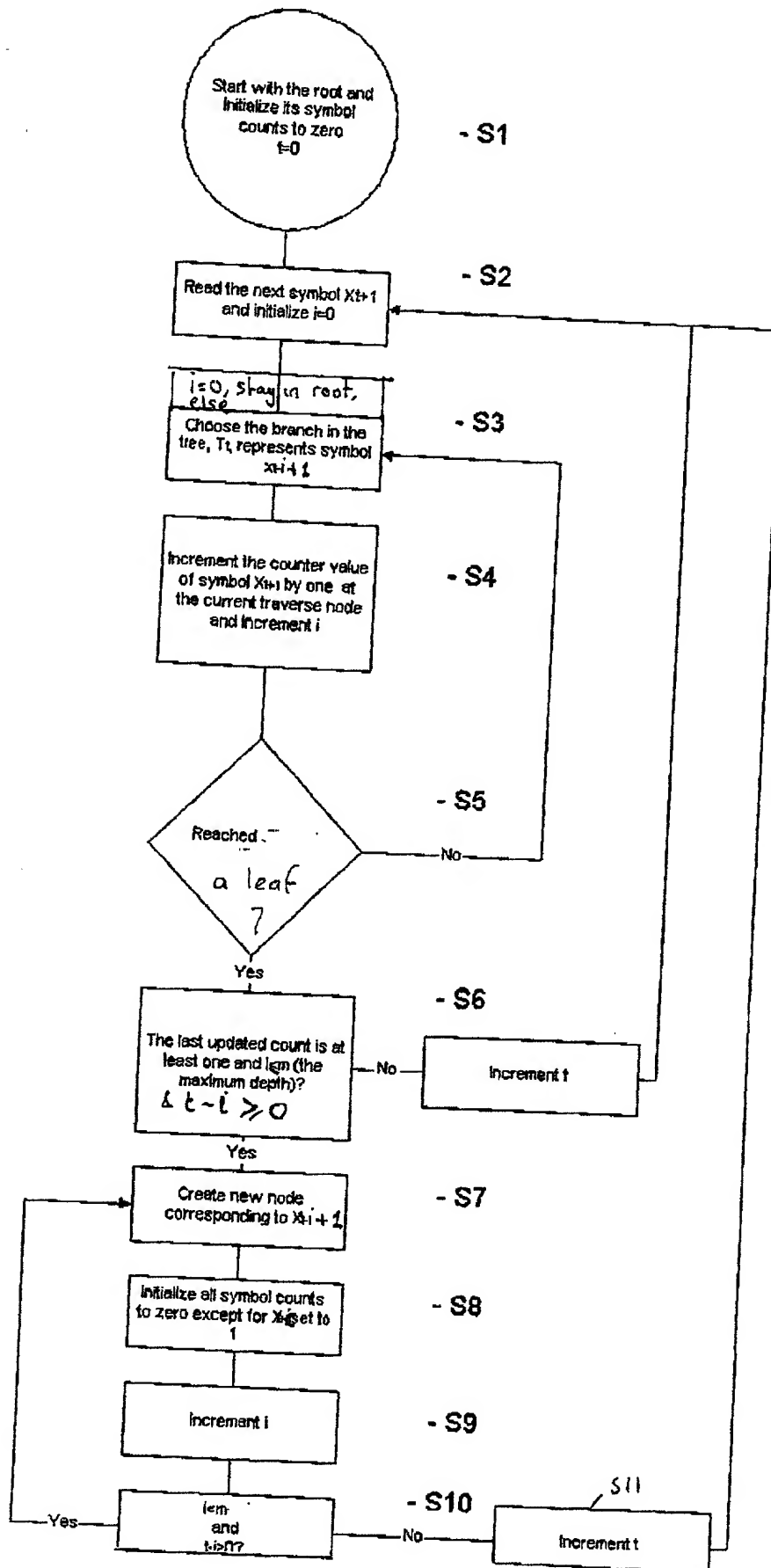


Fig. 6A

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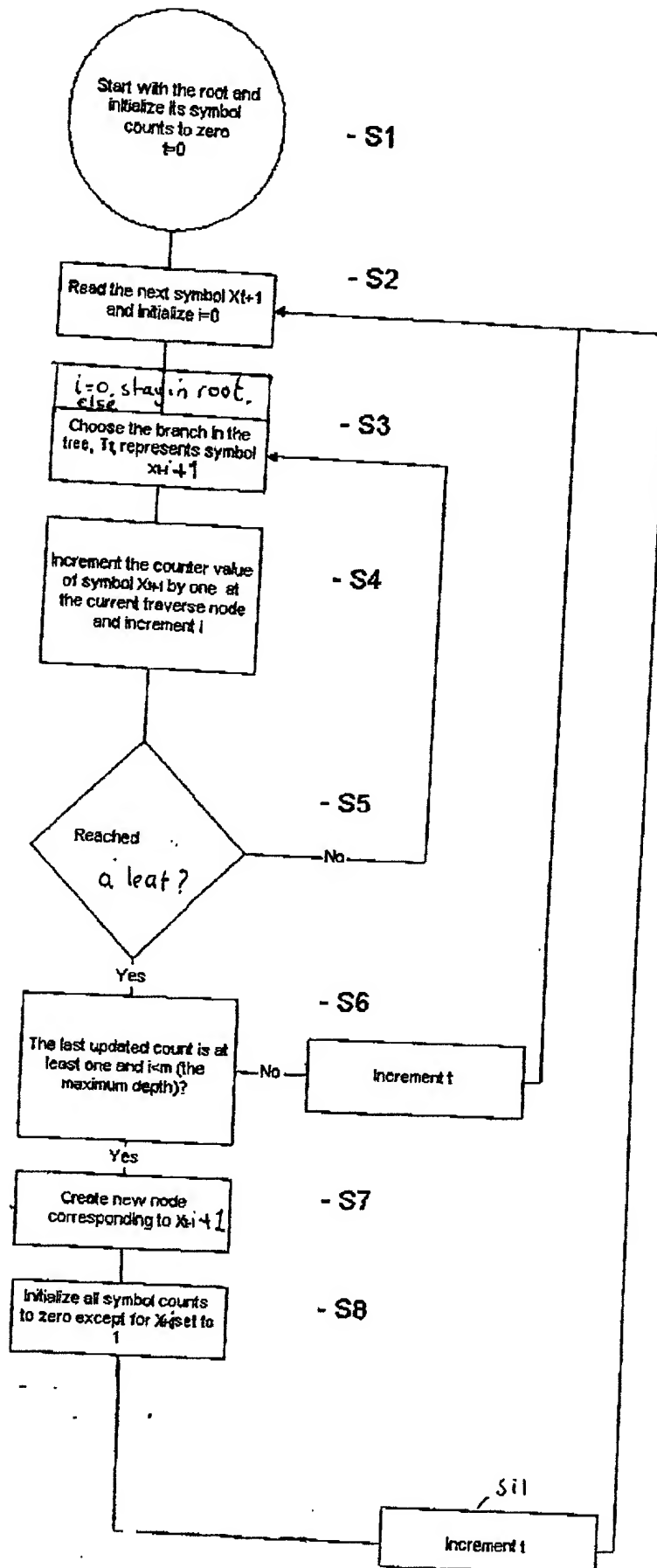


Fig 6B

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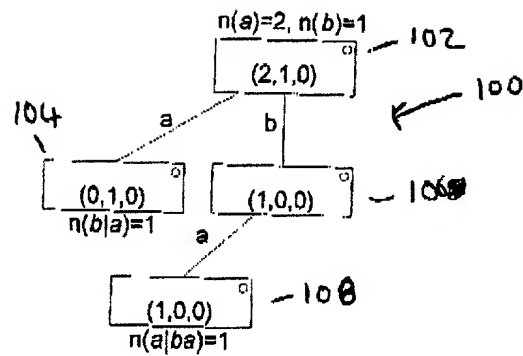


Figure 7: the counter context tree constructed from $x_3 = a, b, a$

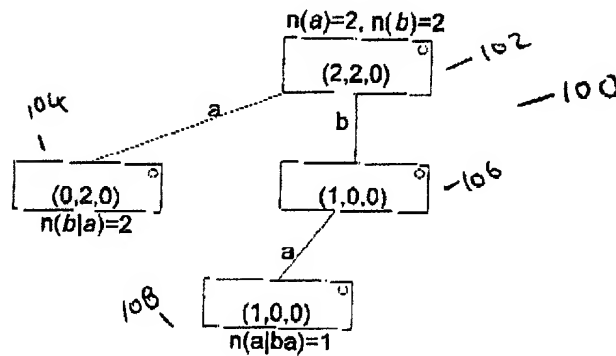


Figure 8: the counter context tree constructed from $x^4 = a, b, a, b$ following Step I.1

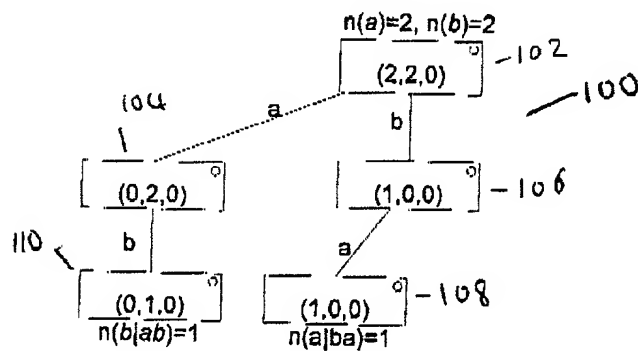
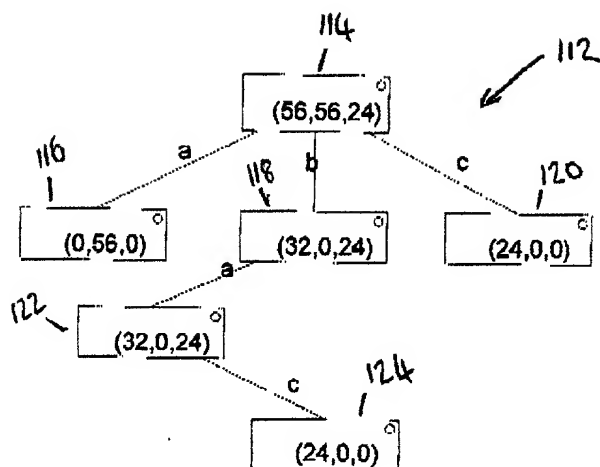
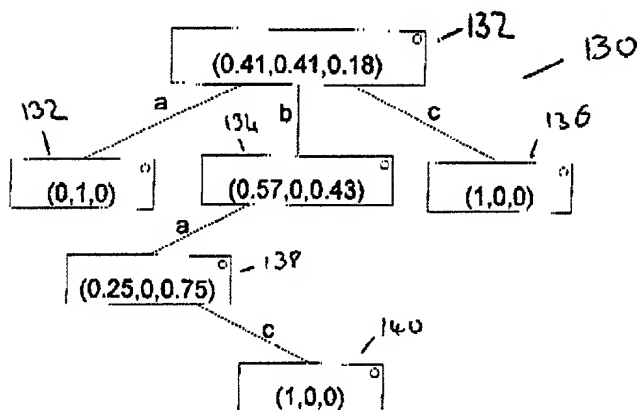


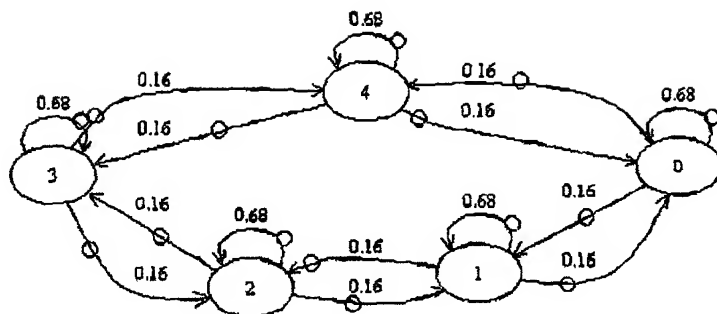
Figure 9: the counter context tree constructed from $x^4 = a, b, a, b$; partial application of Step I.2



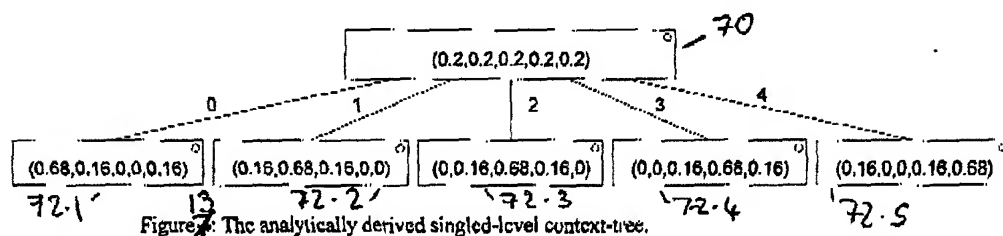
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Figure 10: The pruned counter context-tree of the string
(a, b, a, b, c, a, b, a, b, c, a, b, a, b, a, b, c) replicated 8 times



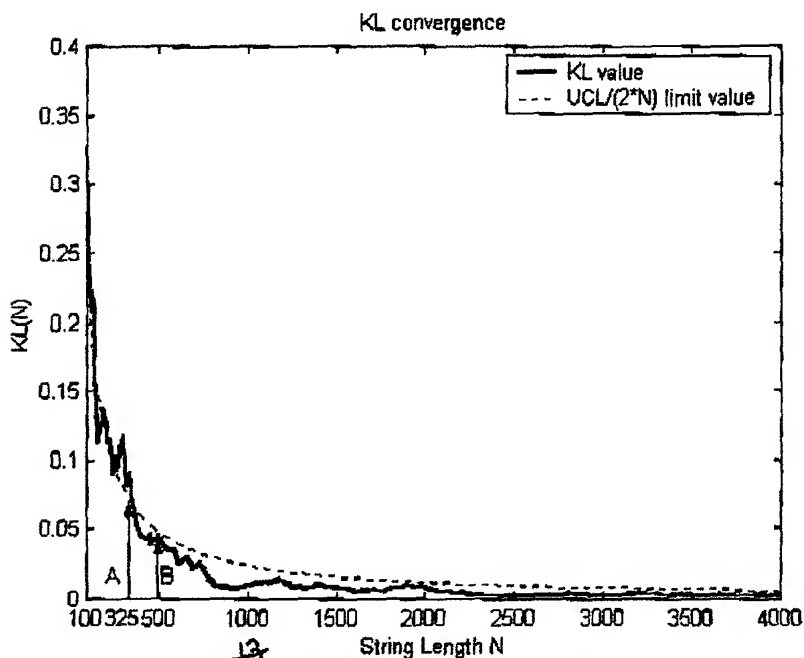
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Figure 11: The context tree containing vectors of conditional probabilities $P(x|s)$ as obtained from the counter context-tree in figure A4. Optimal contexts are represented by the bolded frame.



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Figure 12 State transition diagram



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Figure 13 The analytically derived singled-level context-tree.



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Figure 14 KL value in relation to input string length N

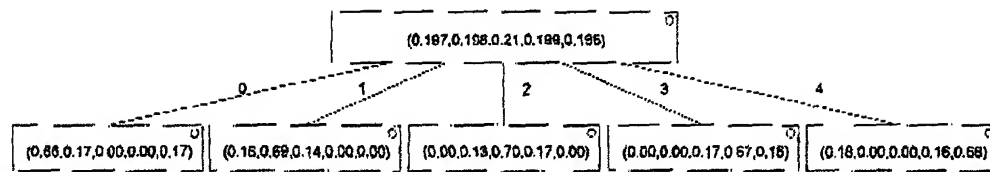


Figure 15: Estimated reference context-tree resulted from the implementation of context algorithm to $N=1000$

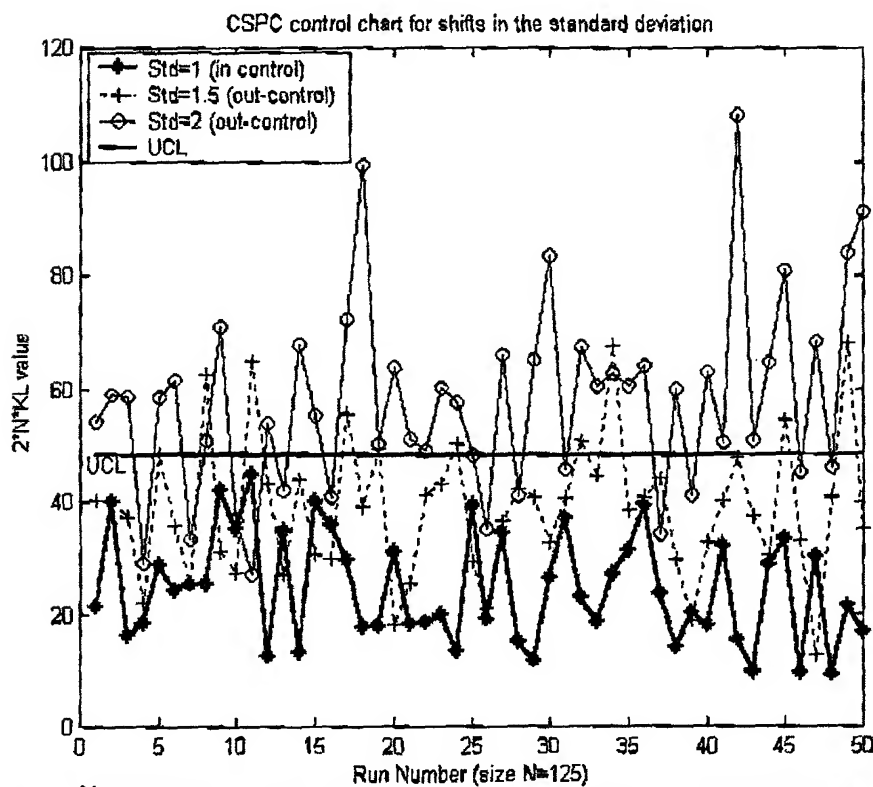


Figure 16: Shifts in the process underlying normal standard deviation - $\lambda=1, 1.5, 2$ (number of runs for each process properties is equal to 50).

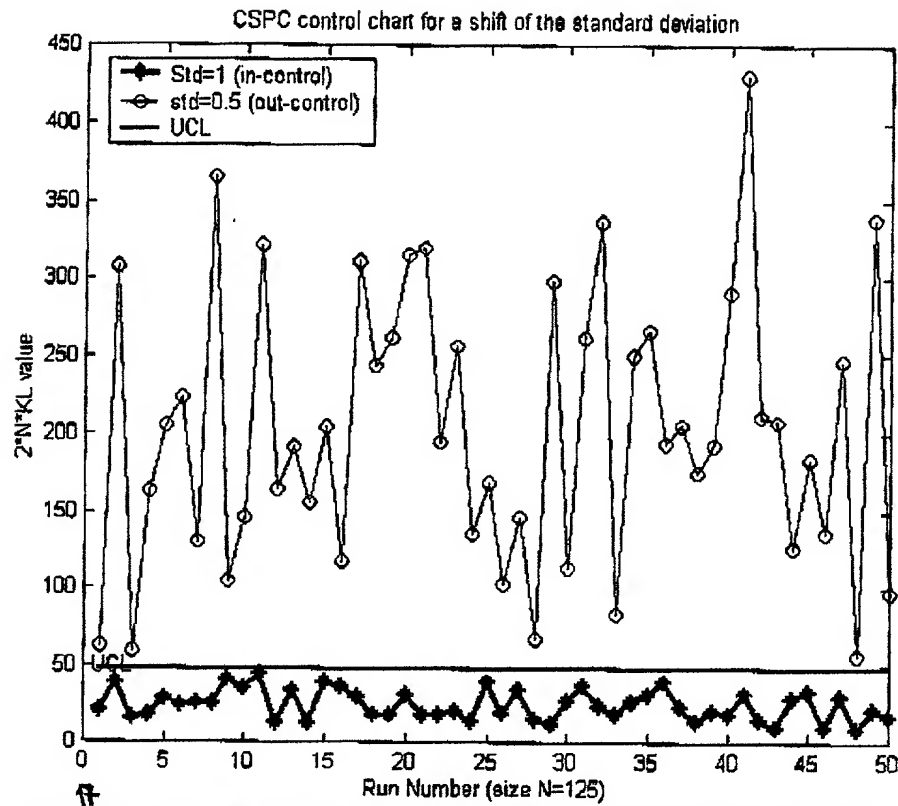


Figure 8: Shift in the process underlying normal standard deviation - $\lambda=0.5$ (number of runs equal to 50)

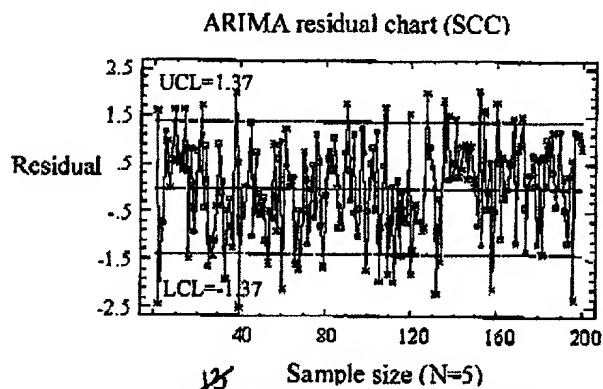
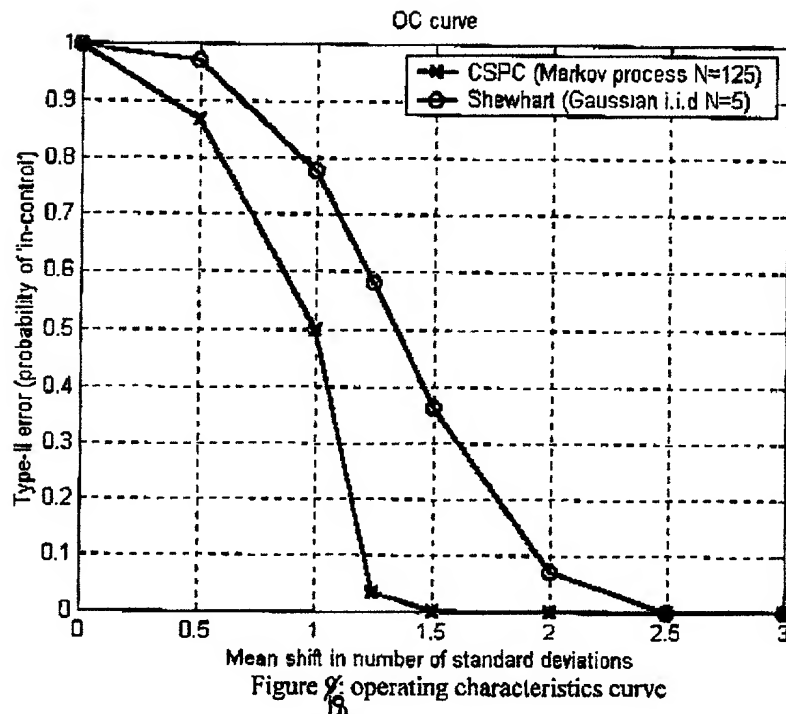
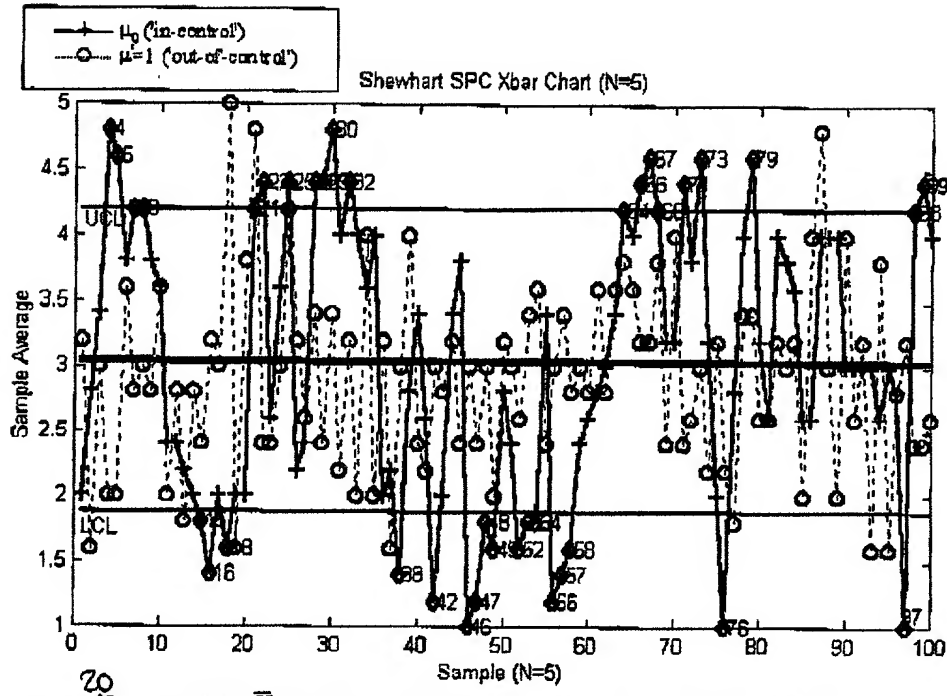
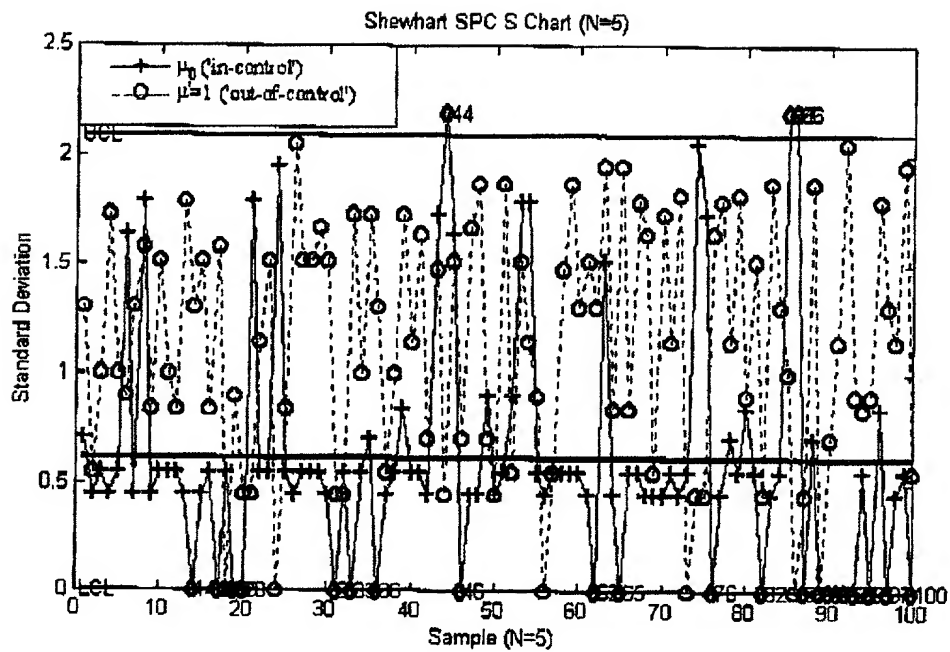


Figure 19 the SCC control chart for 'in-control' data





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 Figure 15 Shewhart SPC S-chart - 'in-control' data (solid line) and 'out-of-control' data (dashed line)

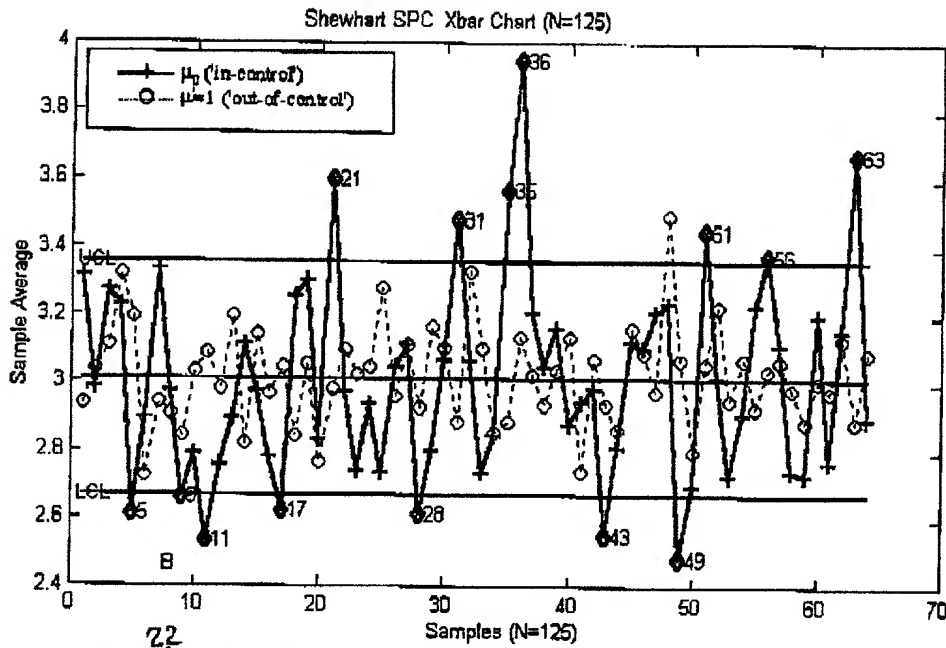


Figure 10: Shewhart SPC \bar{X} chart for N=125 sample size 'in-control' data (solid line) and out of control data (dashed line)

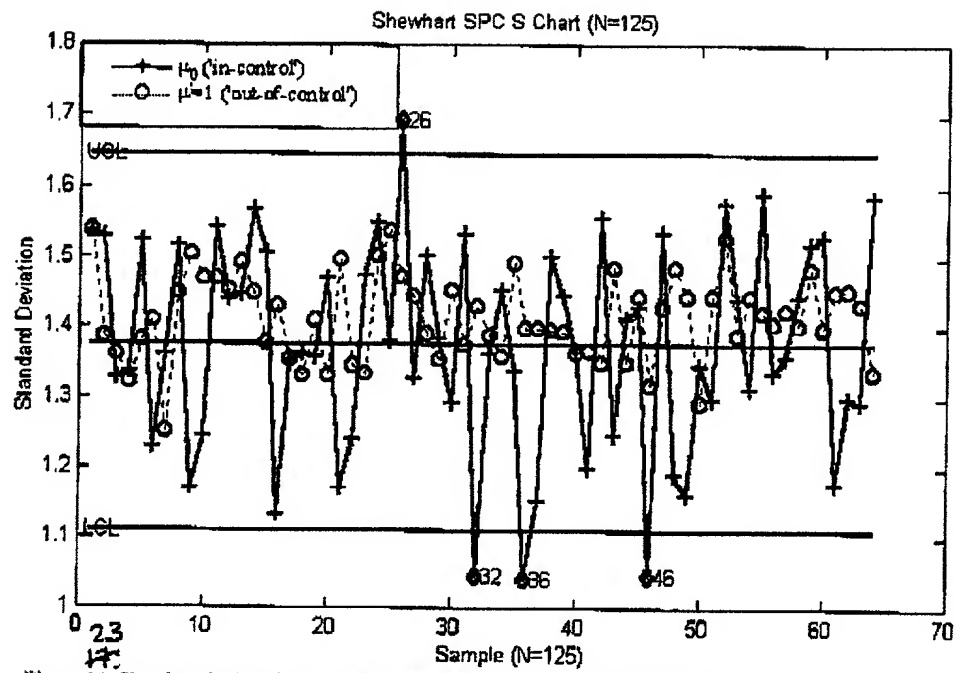


Figure 14: Shewhart SPC S chart for $N=125$ sample 'in-control' data (solid line) and out of control data (dashed line)